

Serial No. 09/748,739

Preliminary Amendment and Request for Continued Examination, filed Nov. 10, 2004

Amendments to the Claims

1. (Currently amended) A butyrylcholinesterase variant comprising ~~substantially the same an~~
amino acid sequence comprising at least 95% sequence identity to a sequence of
amino acid residues 1 or about 29 through 602, inclusive, of the amino acid sequence
shown as SEQ ID NO:2, wherein said variant ~~or said functional fragment thereof~~ has
a Tryptophane at amino acid position 328.
2. (Currently amended) The butyrylcholinesterase variant ~~or functional fragment~~ of claim 1,
having a 15-fold increase in cocaine hydrolysis activity.
- 3-39. (Cancelled).

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Listing of Claims

1. A butyrylcholinesterase variant comprising an amino acid sequence comprising at least 95% sequence identity to a sequence of amino acid residues 1 or about 29 through 602, inclusive, of the amino acid sequence shown as SEQ ID NO:2, wherein said variant has tryptophan at amino acid position 328.
2. The butyrylcholinesterase variant of claim 1, having a 15-fold increase in cocaine hydrolysis activity.